CS 366: Programming Assignment 2

Polynomial

Due 19 October 2005, 11:59 AM (before class)

Write a function that computes the value of y as shown below:

$$y = ax^3 + bx^2 + cx + d$$

The function accepts values for a, b, c, d and x as arguments and computes y, which it returns back to the caller.

Turnin The submission has two parts — electronic and hard-copy. The command for the electronic turnin is:

`turnin -c cs366 -p poly` $\langle files \rangle$

The hard-copy contains a listing of your program. Also have a pseudo-code (or some high-level language) listing for the algorithm you used, the testing done and the status of your implementation (what works and what doesn't). This is due in class.

Note The polynomial computation can be done as follows:

$$y = (((a * x) + b) * x + c) * x + d$$

where the multiplication $a * x$ is done first, followed by the addition of the above result with the argument b, followed by the multiplication of the result with x, etc.